



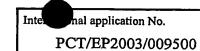


## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference K 59 885/7ch	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/	International filing date (day/month/year) Priority date (					
PCT/EP2003/009500	27 August 2003 (27.0	8.2003)	28 August 2002 (28.08.2002)				
International Patent Classification (IPC) or G06K 19/077	national classification and IPC						
Applicant	GIESECKE & DEVRIE	NT GMBH					
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>							
2. This REPORT consists of a total of	f 5 sheets, includi	ng this cover s	sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a t	total of sheets.						
3. This report contains indications rel	ating to the following items:						
I Basis of the report	I Basis of the report						
II Priority							
III Non-establishment	t of opinion with regard to novel	y, inventive st	tep and industrial applicability				
IV Lack of unity of in	vention						
• • • • • • • • • • • • • • • • • • • •	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability.						
VI Certain documents	VI Certain documents cited						
VII Certain defects in t	the international application						
VIII Certain observations on the international application							
Date of submission of the demand	Date	of completion	of this report				
12 March 2004 (12.03			August 2004 (26.08.2004)				
Name and mailing address of the IPEA/EP	Autho	orized officer					
Facsimile No.	Telep	hone No.					





L.	I. Basis of the report								
1.	1. With regard to the elements of the international application:*								
		the international application as originally filed							
	$\boxtimes$	the des	cription:						
		pages	1-9 , as originally filed						
		pages	, filed with the demand						
		pages	, filed with the letter of						
	$\boxtimes$	the clai							
		pages							
		pages	, as amended (together with any statement under Article 19						
		pages	, filed with the demand						
		pages	, filed with the letter of						
	$\boxtimes$	the dra							
	سع	pages							
		pages	, filed with the demand						
		pages	, filed with the letter of						
	<b>П</b> ,	he seane	nce listing part of the description:						
	Ш,	pages	•						
		pages	, as originally filed						
		pages	, filed with the demand, filed with the letter of						
2.	2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language is the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language								
		the lan	guage of a translation furnished for the purposes of international search (under Rule 23.1(b)).						
	Ц	the lan	guage of publication of the international application (under Rule 48.3(b)).						
		the lan or 55.3	guage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/).						
3.	With	regard minary e	to any nucleotide and/or amino acid sequence disclosed in the international application, the international xamination was carried out on the basis of the sequence listing:						
	Ц	contair	ned in the international application in written form.						
		filed to	gether with the international application in computer readable form.						
	닏	furnish	ed subsequently to this Authority in written form.						
	$\square$	furnish	ed subsequently to this Authority in computer readable form.						
		The st interna	atement that the subsequently furnished written sequence listing does not go beyond the disclosure in the tional application as filed has been furnished.						
	Ш	The sta	atement that the information recorded in computer readable form is identical to the written sequence listing has arnished.						
4.		The an	nendments have resulted in the cancellation of:						
			the description, pages						
			the claims, Nos.						
			the drawings, sheets/fig						
5.		This rep	port has been established as if (some of) the amendments had not been made, since they have been considered to go the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
*	in ini	icement : is report 10.17).	sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16						
**	Any r	eplacem	ent sheet containing such amendments must be referred to under item I and annexed to this report.						

## INTERNATIONAL PRESIDENTIARY EXAMINATION REPORT

Internal application No.
PCT/EP 03/09500

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabil citations and explanations supporting such statement	ity;

1.	Statement			
	Novelty (N)	Claims	1-10	YES
		Claims		NO
	Inventive step (IS)	Claims	1-5	YES
		Claims	6-10	NO
	Industrial applicability (IA)	Claims	1-10	YES
		Claims		NO

- 2. Citations and explanations
  - 1. Reference is made to the following documents:
    - D1: US-A-4 876 441 (BITO HIROYASU et al.), 24 October 1989 (1989-10-24)
    - D2: DE 199 54 841 A (SIEMENS AG), 17 May 2001 (2001-05-17)
    - D3: DE 199 63 165 C (GIESECKE & DEVRIENT GMBH), 8 March 2001 (2001-03-08)
    - D4: US-A-4 795 895 (HARA KAZUYA et al.), 3 January 1989 (1989-01-03)
    - D5: US 2002/020491 A1 (LARSON GARY R et al.), 21 February 2002 (2002-02-21)
  - 2. The cited prior art contains nothing to suggest a method for fitting a display in a data carrier card, wherein a reflective layer is first applied to a recess in the card and a display is then mounted which operates in conjunction with the reflective layer as a reflective display. Method claims 1 to 5 therefore meet the requirements of novelty and inventive step (PCT Article 33(2) and (3)). The invention is clearly industrially applicable.
  - 3. Independent device claim 6 relates to a portable data carrier with a display mounted in a recess. The specification that a reflective layer is applied to the base of the recess covers not only cases in which the reflective layer is created separately from the display but also cases involving the

## INTERNATIONAL PREDMINARY EXAMINATION REPORT



fitting of a display module that has a reflective layer applied to its underside. Document D1 describes the fitting of a display in a data carrier card (credit card with computer; see figures 9 and 10 and the description). Since LCD displays in this type of application are normally always reflective, a person skilled in the art would assume that the display 160 in figures 9 and 10 had a reflective layer on its underside, or would at least consider using such a display. Thus the act of bonding such a display in place automatically applies a reflective layer to the base of the recess (with an intermediate layer). Moreover, figure 10 in D1 shows contact areas in the recess formed by conductors (161), which contact the contact areas on the display. The contact areas on the display face the base of the recess (see figure 10 in conjunction with figure 9). A person skilled in the art working from D1 would thus arrive at the subject matter of claim 6 without having to exercise any inventive skill. The same applies to independent method claim 10, in which the reflective layer is specifically stated to be already on the display. Attention is also drawn to document D2, which also describes the fitting of an LCD display with downward-facing contact areas (see figure 1).

Dependent claims 7 to 9 do not add any features that might establish an inventive step. The multiple-level design of the display and recess are known from D1 and D2, and the filling of gaps is known from document D3 (see the top of column 6). The use of anisotropically conductive adhesives for contacting electronic components is also known from the prior art (see the abstracts of documents D4 and D5).